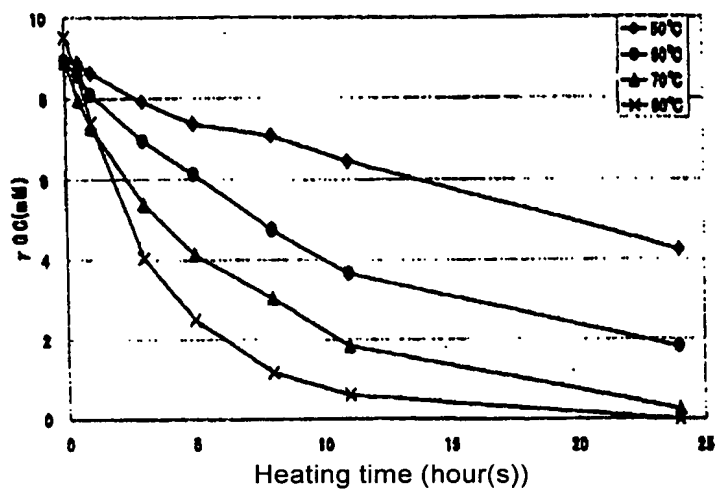


Fig. 1A Decomposition Reaction of 10 mM γ -GC

Changes in decomposition of γ -GC with a lapse of time



Arrhenius plots of decomposition of γ -GC

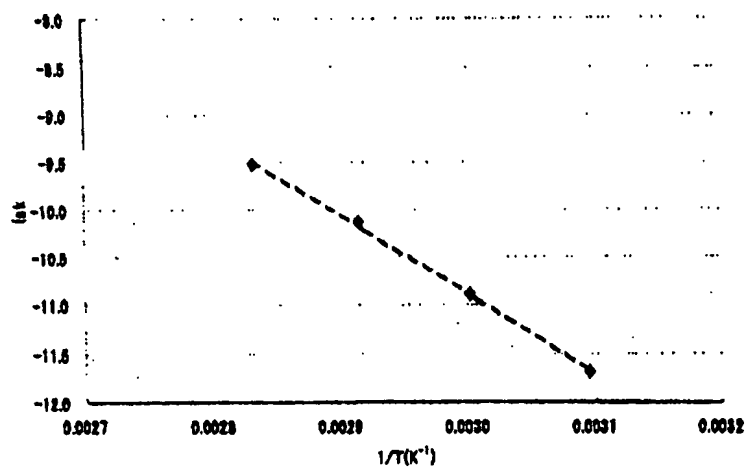


Fig. 1B Decomposition Reaction (Production of Cys) of 10 mM γ -GC

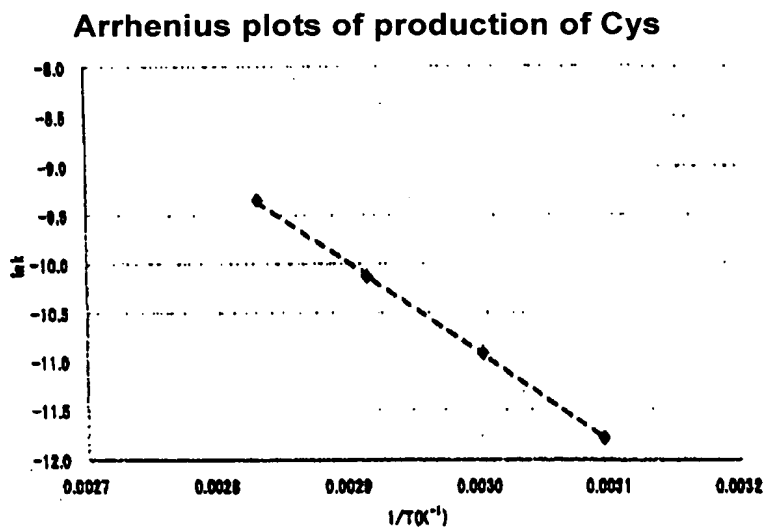
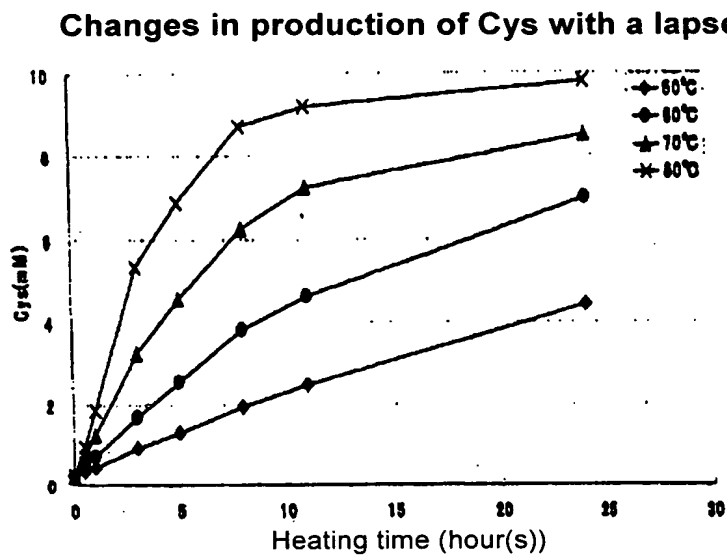
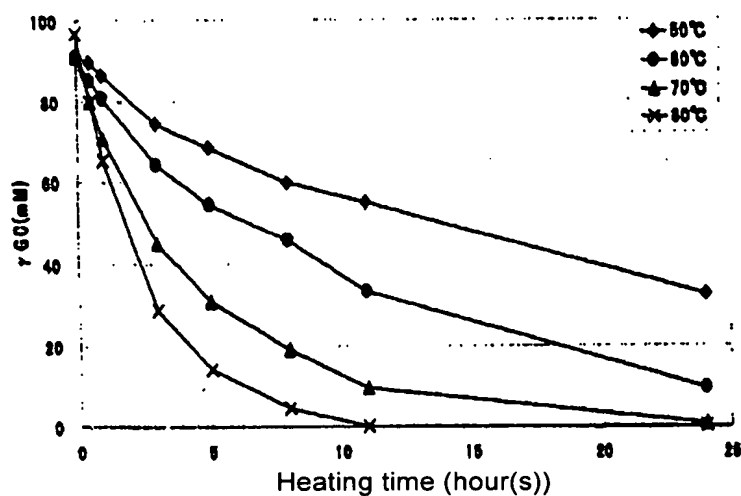


Fig. 1C Decomposition Reaction of 100 mM γ -GC

Changes in decomposition of γ -GC with a lapse of



Arrhenius plots of decomposition of γ -GC

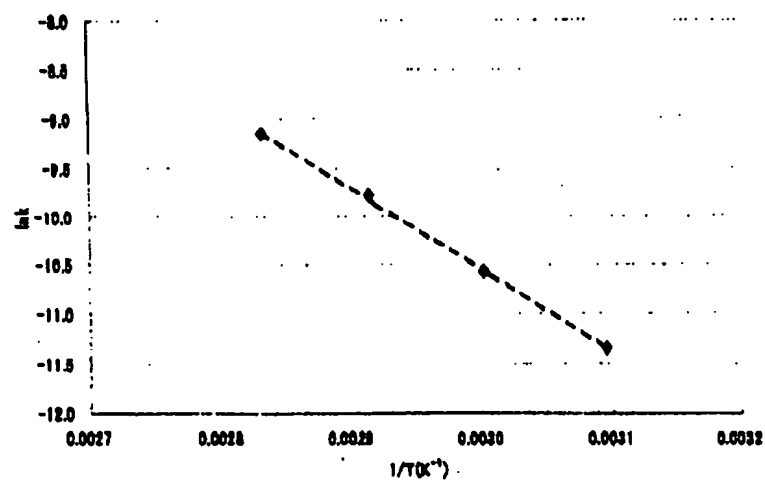
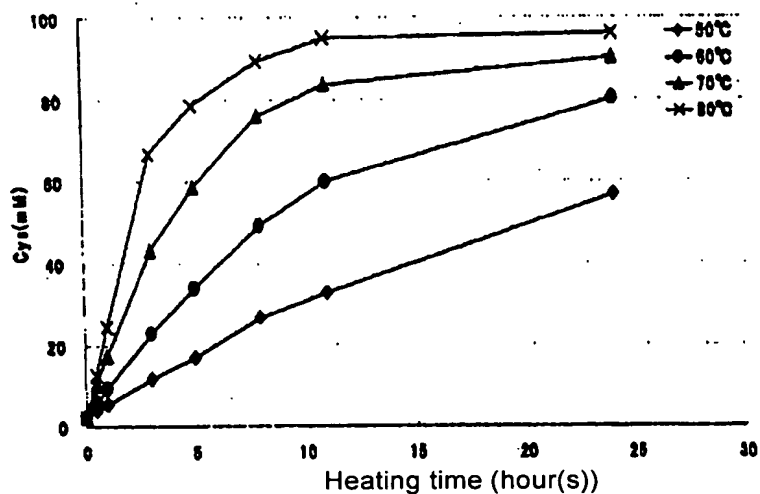


Fig. 1D Decomposition Reaction (Production of Cys) of 100 mM γ -GC

Changes in production of Cys with a lapse of time



Arrhenius plots of production of Cys

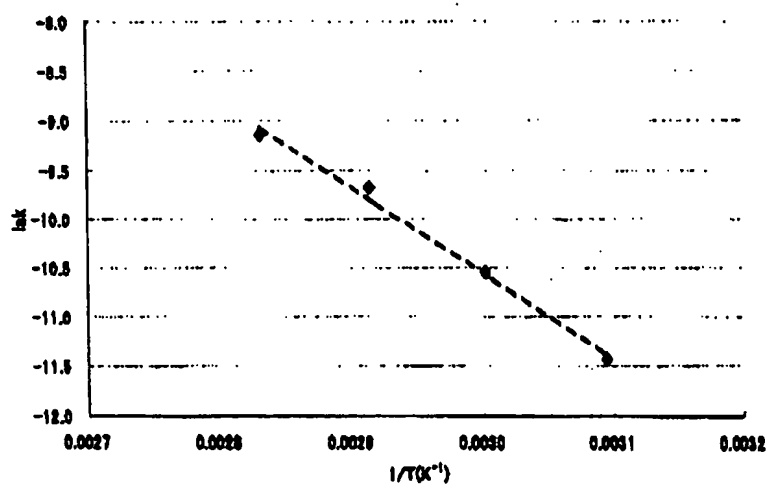


Fig. 2

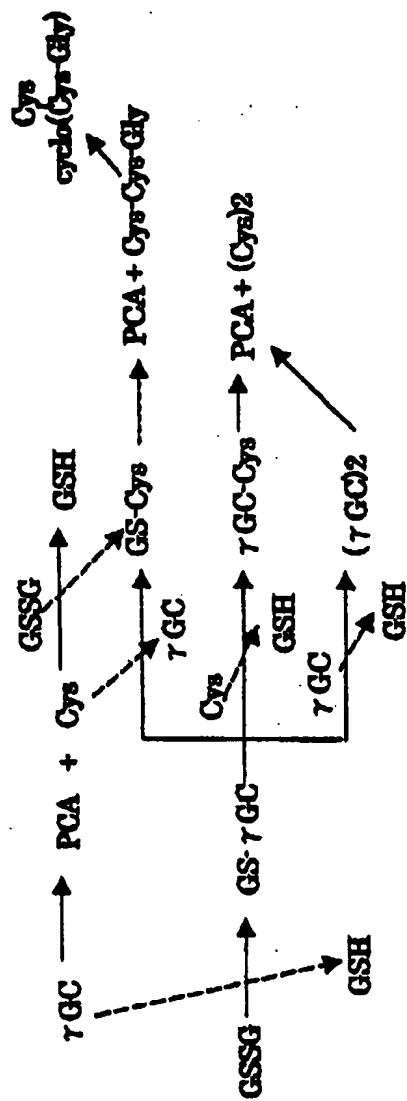
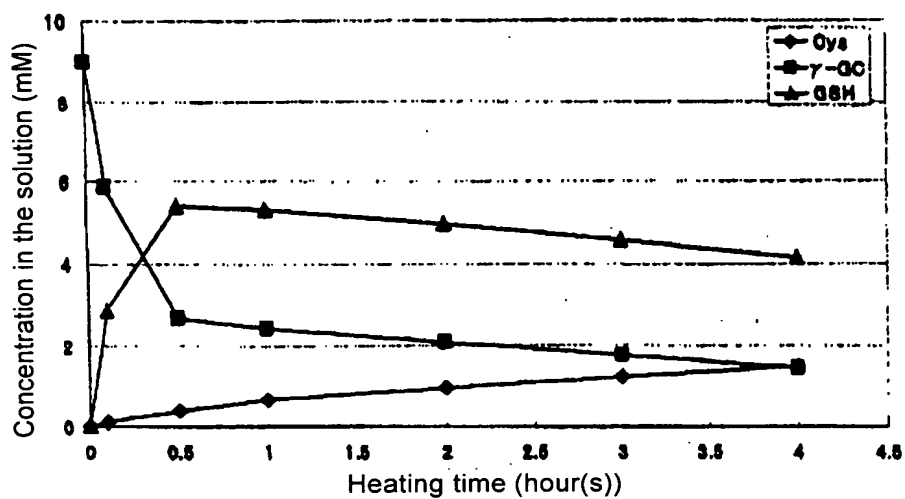


Fig. 3 Heating reaction in the coexistence and absence of GSSG

(a) Heating reaction in the coexistence of 10 mM GSSG



(b) Heating reaction in the absence of GSSG

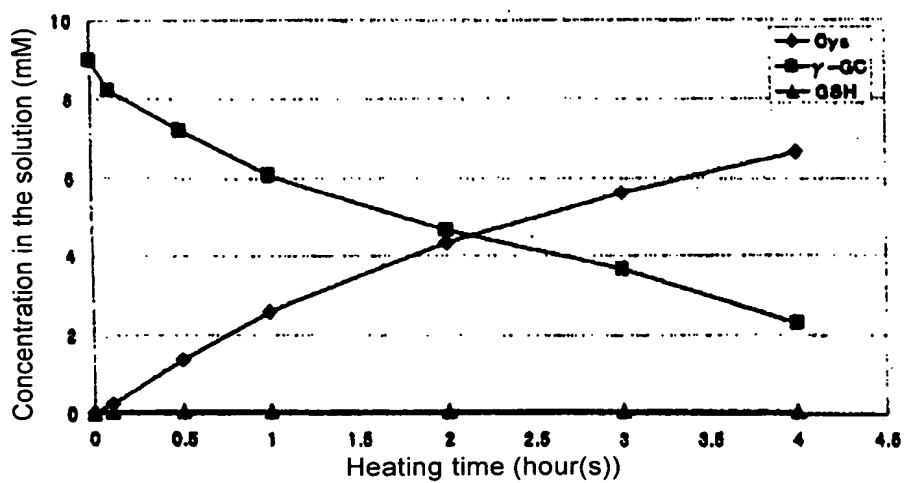


Fig. 4 Converting rate of Cys in the presence of a saccharide

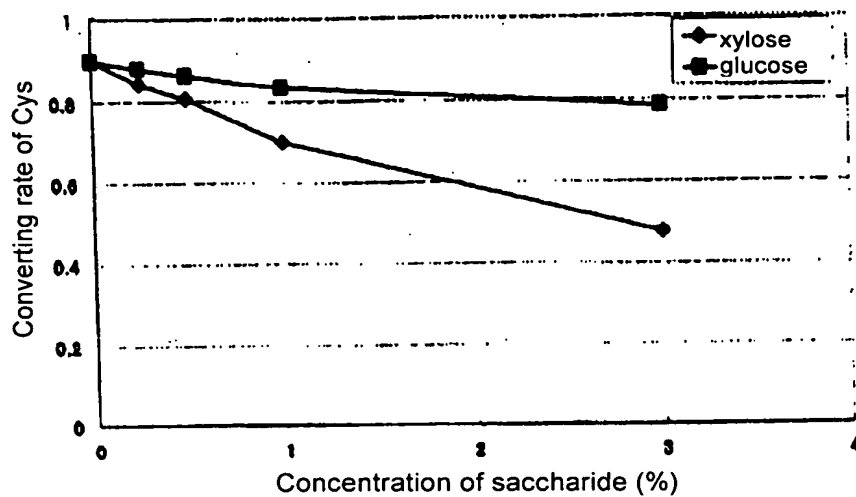


Fig. 5 Residual rate of γ -GC in the presence of dissolved oxygen

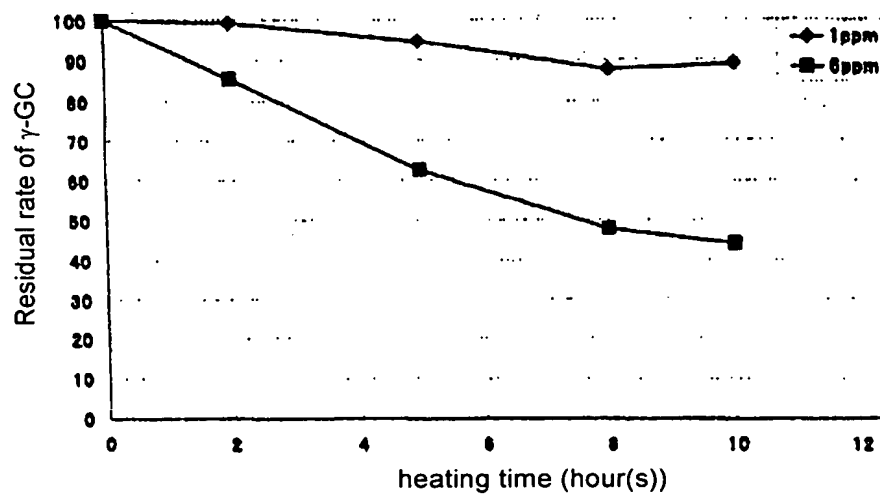
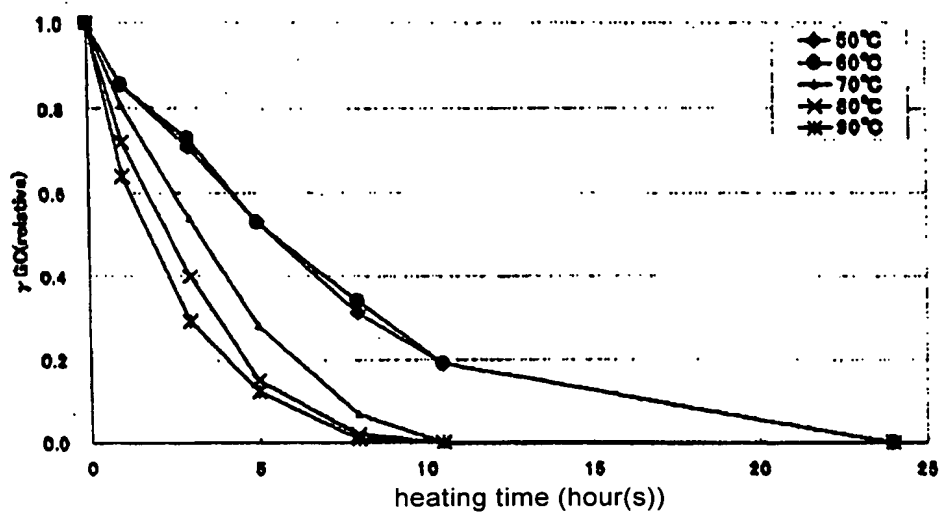


Fig. 6A Decomposition reaction of γ -GC in the case of 3% in DM

(a) Changes in decomposition of γ -GC with a lapse of time in the case of 3% in DM



(b) Arrhenius plots in the case of 3% in DM

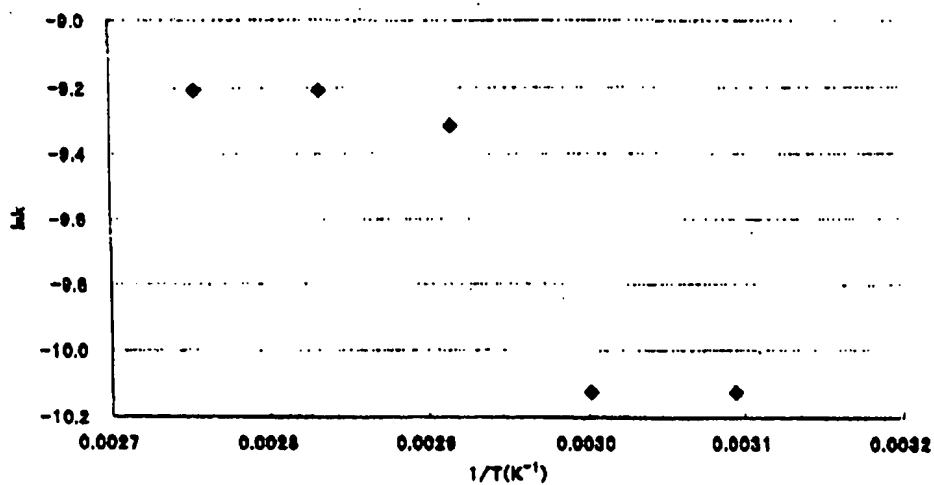
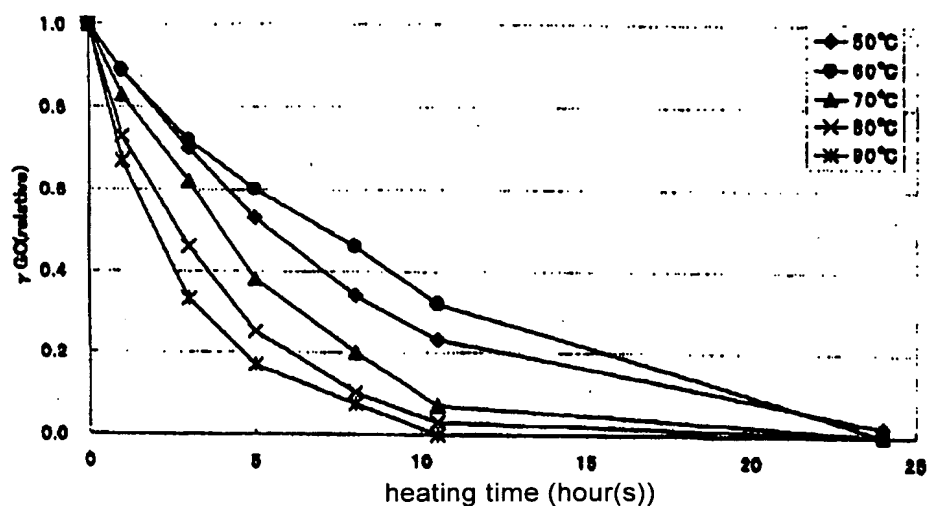


Fig. 6B Decomposition reaction of γ -GC in the case of 5% in DM

(a) Changes in decomposition of γ -GC with a lapse of time in the case of 5% in DM



(b) Arrhenius plots in the case of 5% in DM

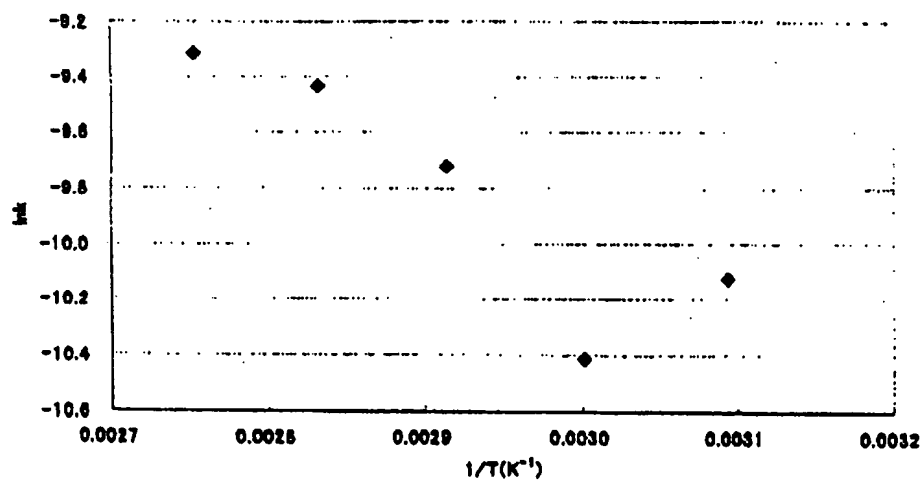
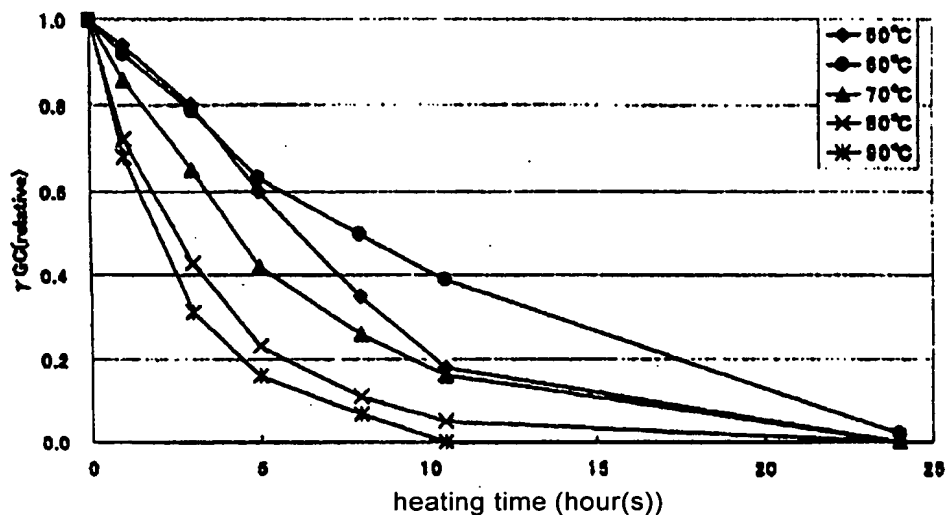


Fig. 6C Decomposition reaction of γ -GC in the case of 8% in DM

(a) Changes in decomposition of γ -GC with a lapse of time in the case of 8% in



(b) Arrhenius plots in the case of 8% in DM

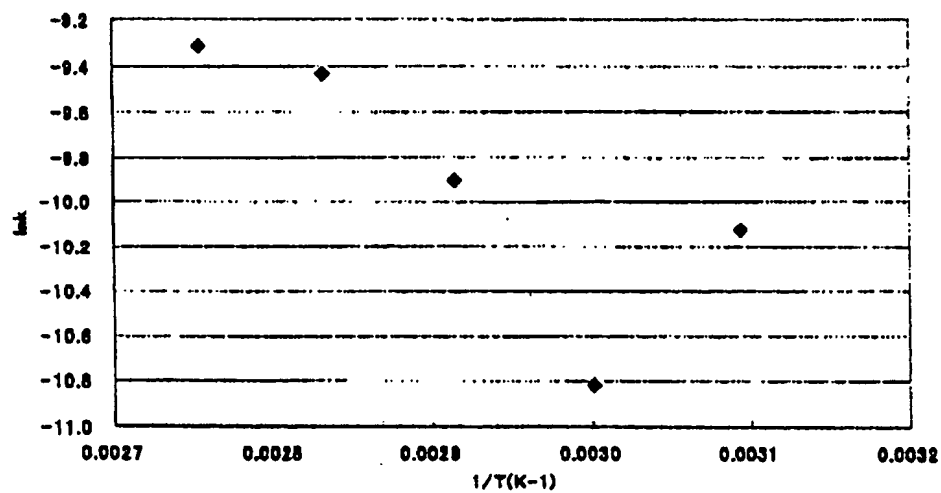
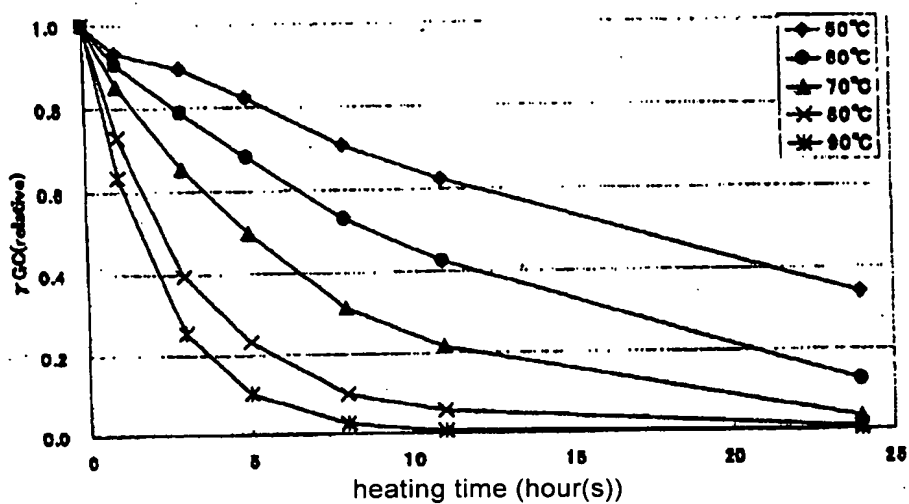


Fig. 6D Decomposition reaction of γ -GC in the case of 10% in DM

(a) Changes in decomposition of γ -GC with a lapse of time in the case of 10% in



(b) Arrhenius plots in the case of 10% in DM

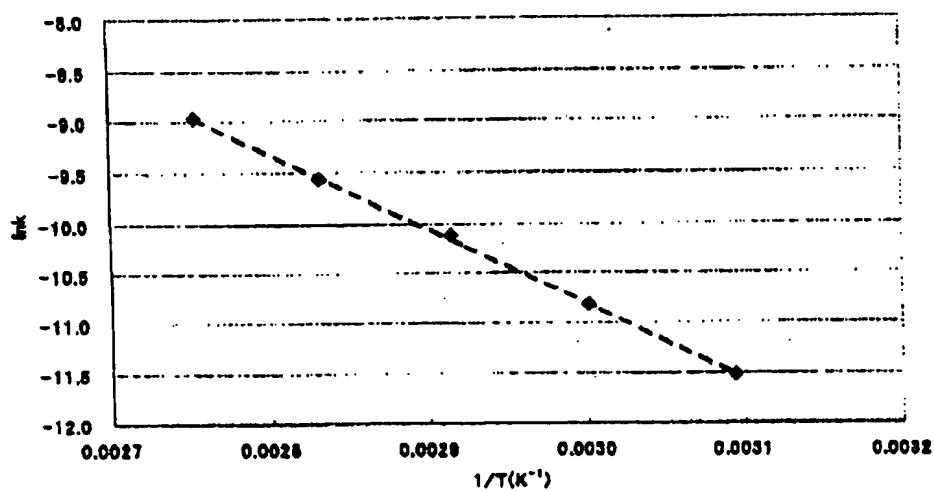
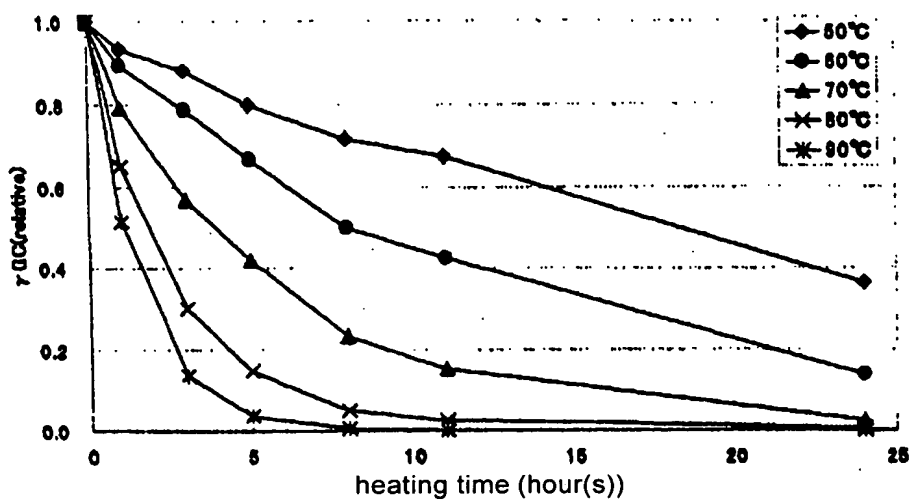


Fig. 6E Decomposition reaction of γ -GC in the case of 20% in DM

(a) Changes in decomposition of γ -GC with a lapse of time in the case of 20% in DM



(b) Arrhenius plots in the case of 20% in DM

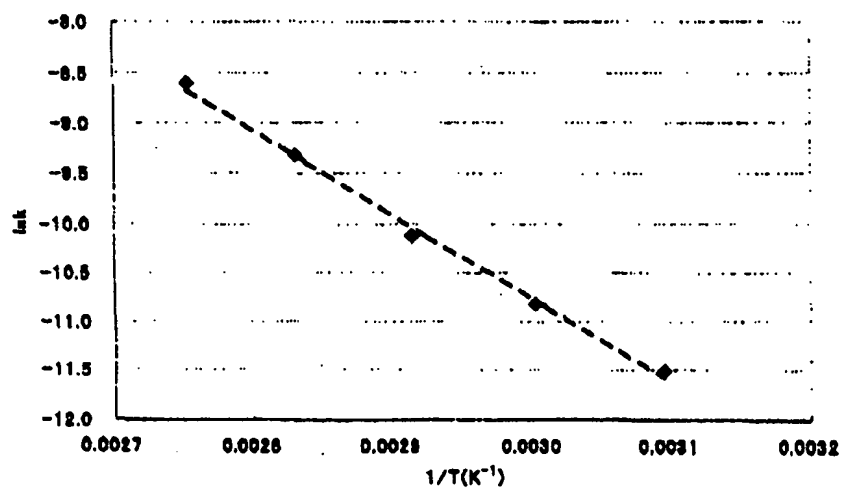
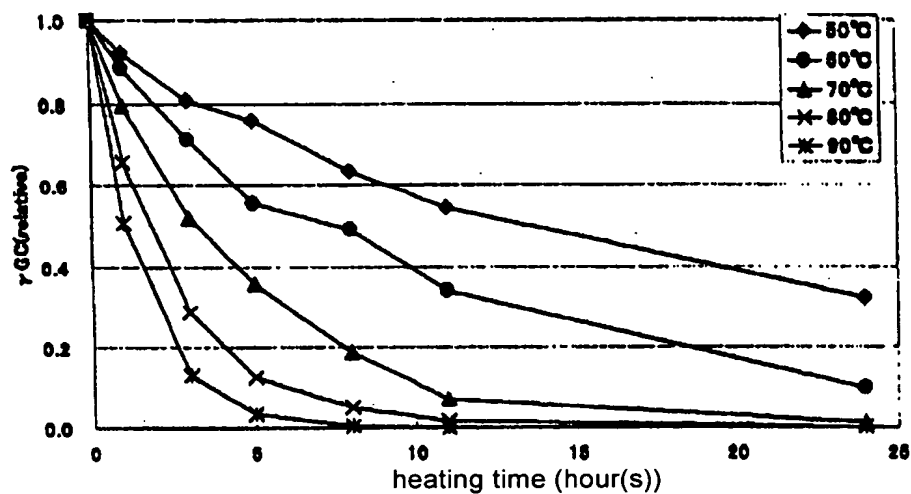


Fig. 6F Decomposition reaction of γ -GC in the case of 30% in DM

(a) Changes in decomposition of γ -GC with a lapse of time in the case of 30% in DM



(b) Arrhenius plots in the case of 30% in DM

